

Patent Number(s): JP53051294-A

Title: Polyester prodn. from terephthalic acid and ethylene glycol - using catalyst obtd. by reacting antimony cpd. and cobalt cpd. in ethylene glycol solvent

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Derwent Primary Accession Number: 1978-44662A [25]

Patents Cited by Inventor: 0

Citing Patents: 0

Articles Cited by Inventor: 0

Patents Cited by Examiner: 0

Articles Cited by Examiner: 0

Abstract:

Prepn. of polyester comprises esterifying terephthalic acid with ethylene glycol and polymerising the resulting ester to obtain polyester. A soln. obtd. by reacting an Sb cpd. and a Co cpd. in ethylene glycol as solvent is used as catalyst.

Esterification is carried out in a simple batch process, semi-batch process or a continuous process. The catalyst is prepd. either by mixing ethylene glycol soln. of Sb cpd. and Co cpd. to react and dissolve, or by adding Co cpd. to ethylene glycol soln. of Sb cpd. and heating to react and dissolve. The amt. of Sb cpd. in the soln. is 0.005-3.0 (1.0-2.0) wt.% in terms of Sb₂O₃ and the amt. of Co cpd. is 0.005-4.0 (1.0-2.0) wt.% in terms of Co acetate.

The esterification rate is increased, formation of diethylene glycol as a by-prod. is inhibited and colouring of the polymer is prevented.

International Patent Classification: C07C-067/08; C07C-069/82; C08G-063/34

Derwent Class: A23 (Polyamides, polyesters, polycarbonates, alkyds)

Derwent Manual Code(s): A02-A06; A02-A07A; A05-E04A

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